

Applicant: Boekelman, W.
Application No.: Unassigned
Filing Date: Herewith
Docket No.: 903-184 PCT/US
Page 2

A. Amendments to the Specification:

Please amend the Title at page 1, line 1, as follows:

~~Gassensor~~ GAS SENSOR

Please add the following immediately after the title of the invention:

CROSS-REFERENCE TO RELATED APPLICATIONS:

This application is the National Stage of International Application No. PCT/NL2004/000652, filed September 20, 2004, which claims the benefit of Netherlands Application No. NL 1024364, filed September 24, 2003, the contents of which is incorporated by reference herein.

Please add the following new paragraph immediately prior to page 1, line 3, and after the Cross Reference to Related Applications, as follows:

FIELD OF THE INVENTION:

Please add the following new paragraph immediately prior to page 1, line 8, as follows:

DISCUSSION OF THE PRIOR ART:

Please add the following new paragraph immediately prior to page 2, line 2, as follows:

SUMMARY OF THE INVENTION:

Please amend the paragraph beginning at page 2, line 29, as follows:

In an ~~One~~ embodiment of the gas sensor according to the invention, ~~is characterized in that~~ the gas sensor is provided with at least two light sources, which can each be projected on the same light entry opening of the chamber by means of projection optics.

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Please amend the paragraph beginning at page 3, line 6, as follows:

In an ~~Another~~ embodiment of the gas sensor according to the invention, ~~is characterized in that~~ a wavelength-determining element is disposed between at least one light source and the detector.

Please amend the paragraph beginning at page 3, line 12, as follows:

In an ~~Another~~ embodiment of the gas sensor according to the invention, ~~is characterized in that~~ the projection optics comprises at least one projection mirror.

Please amend the paragraph beginning at page 3, line 17, as follows:

In an ~~Yet another~~ embodiment of the gas sensor according to the invention, ~~is characterized in that~~ the mirror comprises a number of segments, a first group of which segments cooperates with the first light source whilst the second group of segments cooperates with the second light source.

Please amend the paragraph beginning at page 4, line 1, as follows:

In an embodiment ~~Preferably~~, the segments of the two groups are evenly distributed over the mirror.

Please amend the paragraph beginning at page 4, line 3, as follows:

In an ~~Yet another~~ embodiment of the gas sensor according to the invention, ~~is characterized in that~~ the light sources are disposed on the same side of the detector.

Please amend the paragraph beginning at page 4, line 10, as follows:

In an embodiment ~~Preferably~~, the light sources are spaced apart by a centre distance in the order of the diameter of the light sources. This, too, achieves that the light beams from the light sources substantially coincide.

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Please amend the paragraph beginning at page 4, line 14, as follows:

In an ~~Yet another~~ embodiment of the gas sensor according to the invention, is characterized in that the light-reflecting chamber is of square cross-section, at least one side of which cross-section has a dimension in the order of the dimension of a light-receiving element of the detector or of the dimension of the projection of the light source.

Please amend the paragraph beginning at page 4, line 19, as follows:

As a result of this shape of the light-reflecting chamber, an optimum homogenising effect is obtained. In an embodiment Preferably, the chamber is tapered, as a result of which the light is concentrated in the direction of the detector.

Please amend the paragraph beginning at page 5, line 2, as follows:

The claims and advantages will be more readily appreciated as the same becomes better understood by invention will now be explained in more detail with reference to the following detailed description and considered in connection with the accompanying drawings[[,]] in which like reference symbols designate like parts.[:]]

Please add the following new paragraph immediately prior to page 5, line 4, as follows:

BRIEF DESCRIPTION OF THE DRAWINGS:

Please amend the paragraph beginning at page 5, line 4, as follows:

Fig. 1 is a schematic view of the basic principle of a gas sensor according to the invention.[:]]

Fig.2 is a schematic view of a first embodiment of a gas sensor according to the invention.[:]]

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Fig. 3 is a schematic view of a second embodiment of a gas sensor according to the invention. [[,]]

Fig. 4 is a schematic view of a third embodiment of a gas sensor according to the invention. [[,]]

Fig. 5 is a schematic view of a fourth embodiment of a gas sensor according to the invention.

Please delete the paragraph beginning at page 5, line 14, which begins with “Like parts are...”

Please add the following new paragraph immediately prior to page 5, line 16, as follows:

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS:

Please amend the section description for the claims on the top of page 10, as follows:

WHAT IS CLAIMED IS: ~~CLAIMS~~

Please add the following new paragraph immediately after page 9, line 27, as follows:

While the invention has been described and illustrated in its preferred embodiments, it should be understood that departures may be made therefrom within the scope of the invention, which is not limited to the details disclosed herein.